(19)

Europäisches Patentamt

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(11) EP 1 118 767 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 07.01.2004 Bulletin 2004/02 (51) Int CI.7: **F02M 61/12**, F02M 61/16, F02M 61/18

(43) Date of publication A2: 25.07.2001 Bulletin 2001/30

(21) Application number: 01300209.2

(22) Date of filing: 10.01.2001

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 19.01.2000 US 487440

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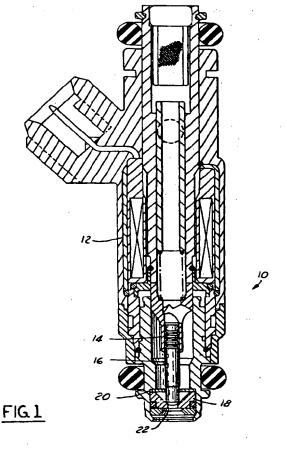
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(54) A combined needle guide, filter, and flow director for gasoline fuel injectors

(57) A fuel injector (10), including a housing (12), an armature assembly (14), an injector needle (16), a needle seat (18), a needle guide (20), and a orifice disc (22) containing one or more orifice metering pathways (24). The needle guide (20) contains a center guide bore (26) and a plurality of filtering passageways (28). The plurality of filtering passageways (28) are used to filter fuel passing through the needle guide (20) and induce swirl in the fuel to improve atomization.



Printed by Jouve, 75001 PARIS (FR)



EUROPEAN SEARCH REPORT

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EP 01 30 0209

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